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ABSTRACT

This booklet along with six others comprises a curriculum guide developed for adult education supervisors and teachers of undereducated workers or job seekers whose inability to develop the skills and obtain the knowledge necessary to meet the requirements of the working world are primarily due to a lack of competence in reading and math skills. This fourth booklet outlines a prescriptive career-oriented adult instructional program (an individualized program of study prescribed according to each worker's specific job requirements and proficiency level in math and reading skills) for undereducated construction employees. (Booklets 5-7 are the other instructional packets developed in each of the following areas: Manufacturing, municipal government, and health services.) This booklet contains 14 one- to two-page lesson plans in which reading or math are taught in conjunction with specific job-related tasks to help workers increase their job performance as they become more proficient in reading and math. Each lesson plan in outline format includes the following: Title; identification as a reading or mathematics instructional plan for a specific skill level; related career knowledge area; the specific skill being taught; behavioral objectives; lists of instructional activities, procedures, and teacher materials (blueprints are attached); and suggested type of evaluation. (EM)

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ED141631

AN ADULT PRESCRIPTIVE PROGRAM FOR LEVELS OF EMPLOYMENT-- CAREER ORIENTED EDUCATION (APPLE CORE)

An Adult Education Curriculum Guide
based on
Instructional Materials Related to the
Occupational Needs of Employees
(Developed and Prepared by Project Apple Core Staff)

Bulletin #1258

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
NATIONAL INSTITUTE OF EDUCATION

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BOOKLET 4

Instructional Packet

Construction Employees

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Department of Health, Education, and Welfare

Grant Number OEG-0-74-1811
Project Number V0016VA

CE 011 964

INSTRUCTIONAL PACKET

CONSTRUCTION EMPLOYEES

PROJECT APPLE CORE
INSTRUCTIONAL PACKET

TITLE: Construction

INSTRUCTIONAL PLAN: Mathematics

CAREER KNOWLEDGE AREA: Measurement LEVEL: L2 - L3

EDUCATIONAL SKILL: Fractions
Decimals

I. INSTRUCTIONAL OBJECTIVES

A. Ability to locate specific information in reading a blueprint.

B. Ability to interpret a blueprint.

1. The pupil will be able to determine the dimensions of the rooms.

2. The pupil will know the various materials needed for construction of a house.

II. INSTRUCTIONAL ACTIVITIES

A. Blueprint reading.

B. Scale.

C. Rules.

D. Dimensions.

III. SUGGESTED INSTRUCTIONAL PROCEDURES

After a discussion on determining room dimensions on a blueprint, the student will:

A. Interpret the information on a blueprint.

B. Identify the dimensions of the various rooms on a blueprint.

C. Determine the various materials needed for the construction job.

IV. TEACHER MATERIALS

Blueprints.

V. EVALUATION

A. Teacher evaluation.

B. On the job application.

VI. BIBLIOGRAPHY

Shea, J. T. Working with Numbers-Refresher. Austin, Texas: Steck-Vaughn Company, 1973, pp. 118-121.

PROJECT APPLE CORE
INSTRUCTIONAL PACKET

TITLE: Construction

INSTRUCTIONAL PLAN: Mathematics

CAREER KNOWLEDGE AREA: Measurement LEVEL: L 3

EDUCATIONAL SKILL: General Knowledge Skills
Decimals

I. INSTRUCTIONAL OBJECTIVES

A. Given individual floor dimensions, the student will determine the area of a five-room house.

B. Given the price per square foot, the student will determine the cost of carpeting for a five-room house.

II. INSTRUCTIONAL ACTIVITIES

A. Area of a rectangle.

B. Multiplication.

III. SUGGESTED INSTRUCTIONAL

A. The formula for finding the area of a rectanglular shape is length times width (A = l x w). Find the area for each room:

Bedroom #1	L = 13'	W = 10'
Bedroom #2	L = 12'	W = 12'
Living room	L = 11'	W = 9'
Kitchen	L = 10'	W = 8'
Bath	L = 8'	W = 4'

B. If carpet for the bedrooms and the living room costs $4.00 per square foot, and kitchen and bathroom vinyl costs $1.50 per square foot, determine the cost for floor covering in each room given in section A.

IV. TEACHER MATERIALS

Teacher made activities.

V. EVALUATION

Teacher evaluation.

PROJECT APPLE CORE
INSTRUCTIONAL PACKET

TITLE: Construction

INSTRUCTIONAL PLAN: Mathematics

CAREER KNOWLEDGE AREA: Measurement LEVEL: L 3

EDUCATIONAL SKILL: General Knowledge Skills

I. INSTRUCTIONAL OBJECTIVES

A. The student will measure a specific room to determine the square yards of carpeting needed to cover the floor.

B. Given three linear dimensions, the student will figure out the amount of fencing required to enclose the area.

II. INSTRUCTIONAL ACTIVITIES

A. Area of a rectangle.

B. Perimeter of a triangle.

III. SUGGESTED INSTRUCTIONAL PROCEDURES

A. Measure the length and width of your living room. How many square yards of carpeting will you need to completely cover the floor? (Area = length x width)

B. If your back yard is triangular-shaped, how many feet of fencing would be required to enclose it if the sides measure 50', 70' and 200'? (Perimeter = side a + side b + side c)

IV. TEACHER MATERIALS

Teacher made practical problems.

V. EVALUATION

Teacher evaluation.

PROJECT APPLE CORE
INSTRUCTIONAL PACKET

TITLE: Construction

INSTRUCTIONAL PLAN: Reading

CAREER KNOWLEDGE AREA: Forms LEVEL: L 1

EDUCATIONAL SKILL: Word Recognition

I. INSTRUCTIONAL OBJECTIVES

The student will recognize the following sight words:

A. Kitchen.

B. Garage.

C. Bedroom.

D. Bath.

II. INSTRUCTIONAL ACTIVITIES

Sight Words.

III. SUGGESTED INSTRUCTIONAL PROCEDURES

A. Instructor will:

1. Introduce the sight words.

2. Explain how and why words are used on a blueprint.

B. Student will:

1. Spell and repeat sight words.

2. Circle words on a blueprint.

3. Locate different rooms on a blueprint.

IV. TEACHER MATERIALS

A. Blueprints.

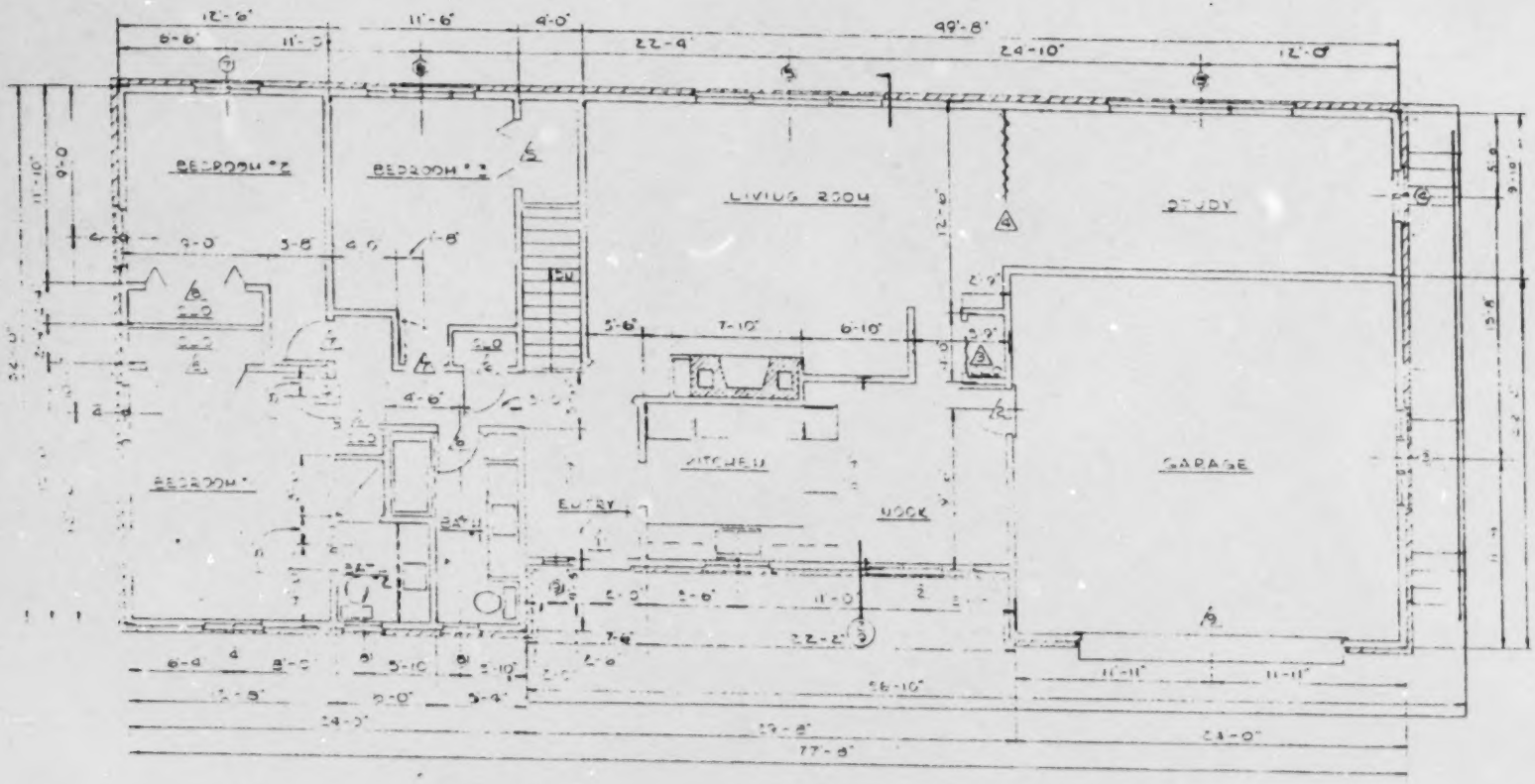
B. Sight word cards.

V. EVALUATION

The student will designate the bedrooms, kitchen, bath, and garage on a floor plan blueprint.

VI. BIBLIOGRAPHY

Copy of blueprint.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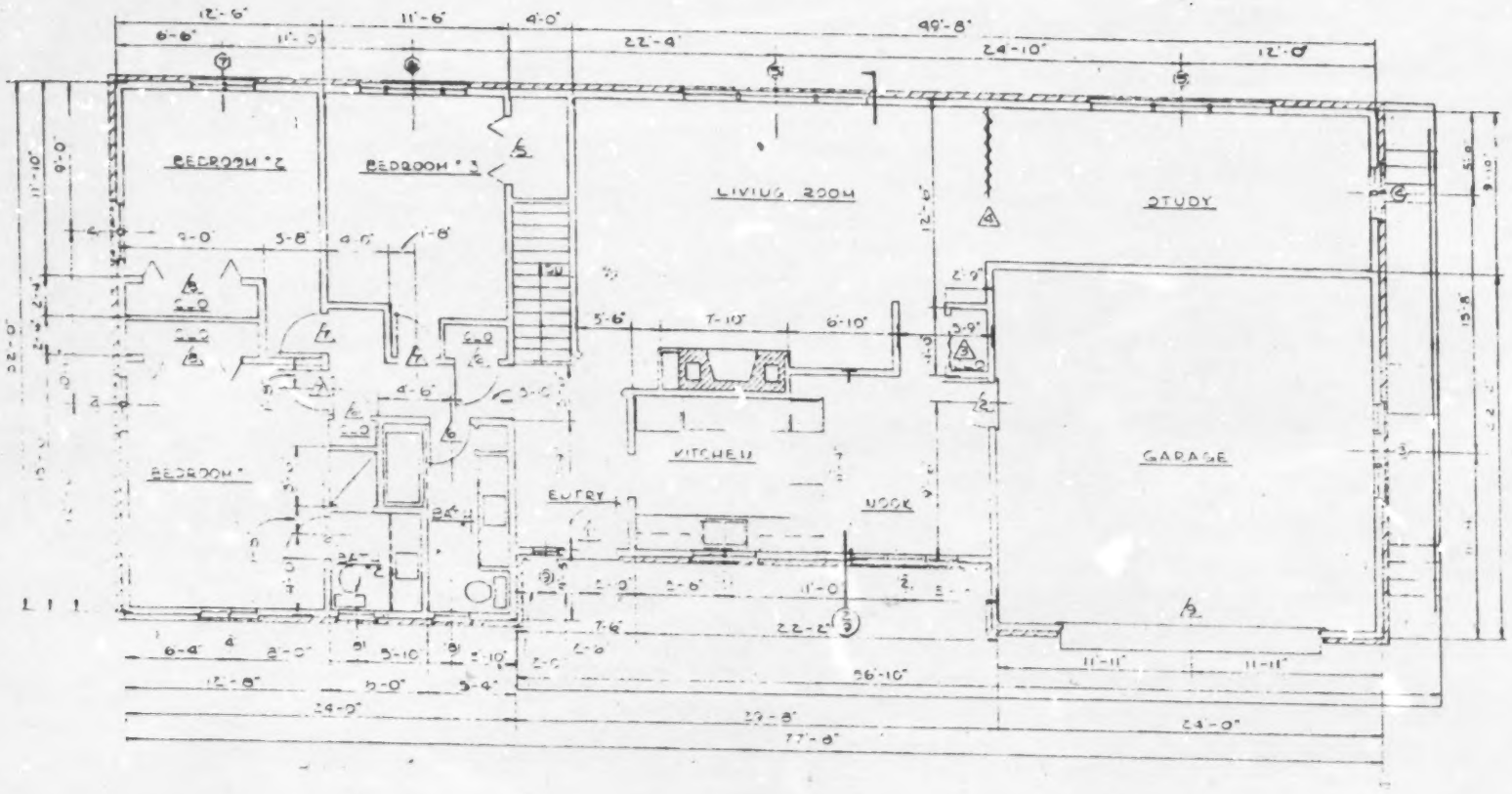
LIVING ROOM
STUDY
BEDROOM #1
KITCHEN
ENTRY
NOOK
GARAGE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LIVING ROOM
STUDY
BEDROOM #1
KITCHEN
ENTRY
NOOK
GARAGE

PROJECT APPLE CORE
INSTRUCTIONAL PACKET

TITLE: Construction

INSTRUCTIONAL PLAN: Reading

CAREER KNOWLEDGE AREA: Forms LEVEL: L 1

EDUCATIONAL SKILL: Readiness

I. INSTRUCTIONAL OBJECTIVES

The student will recognize the letters B, R, P, and K.

II. INSTRUCTIONAL ACTIVITIES

Alphabet recognition.

III. SUGGESTED INSTRUCTIONAL PROCEDURES

A. Instructor will:

1. Introduce letters B, R, P, and K.
2. Point out these letters on a blueprint.

B. Student will:

1. Circle or find letters on a blueprint.
2. Compare alphabet cards with letters on the blueprint.

IV. TEACHER MATERIALS

A. Blueprints.

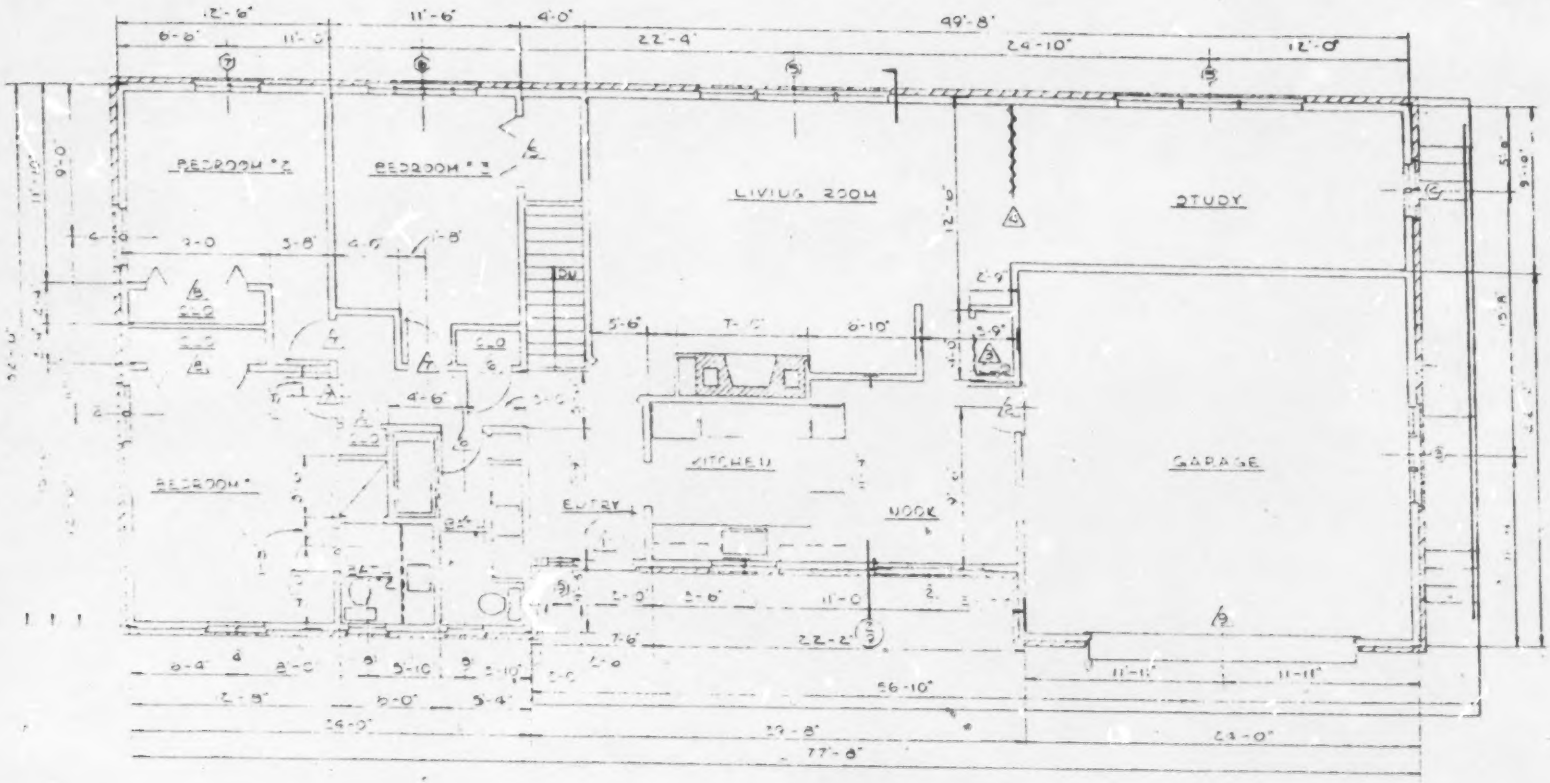
B. Alphabet cards.

V. EVALUATION

Student will circle correctly letters B, R, P, and K on a blueprint.

VI. BIBLIOGRAPHY

Copy of blueprint.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BEDROOM #3
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STUDY
BEDROOM #
KITCHEN
GARAGE
ENTRY
NOOK
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12'-6"
11'-6"
4'-0"
22'-4"
24'-10"
12'-0"
99'-8"
56'-10"
77'-8"

PROJECT APPLE CORE
INSTRUCTIONAL PACKET

TITLE: Construction

INSTRUCTIONAL PLAN: Mathematics

CAREER KNOWLEDGE AREA: Measurement LEVEL: L 1

EDUCATIONAL SKILL: Whole Numbers

I. INSTRUCTIONAL OBJECTIVES

The student will recognize the number 1 through 9.

II. INSTRUCTIONAL ACTIVITIES

Number recognition.

III. SUGGESTED INSTRUCTIONAL PROCEDURES

A. Teacher will introduce the numbers 1 through 9.

B. Student will:

1. Circle the numbers 1 through 9 on a blueprint.

2. Write the numbers 1 through 9.

IV. TEACHER MATERIALS

A. Blueprints.

B. Number cards.

V. EVALUATION

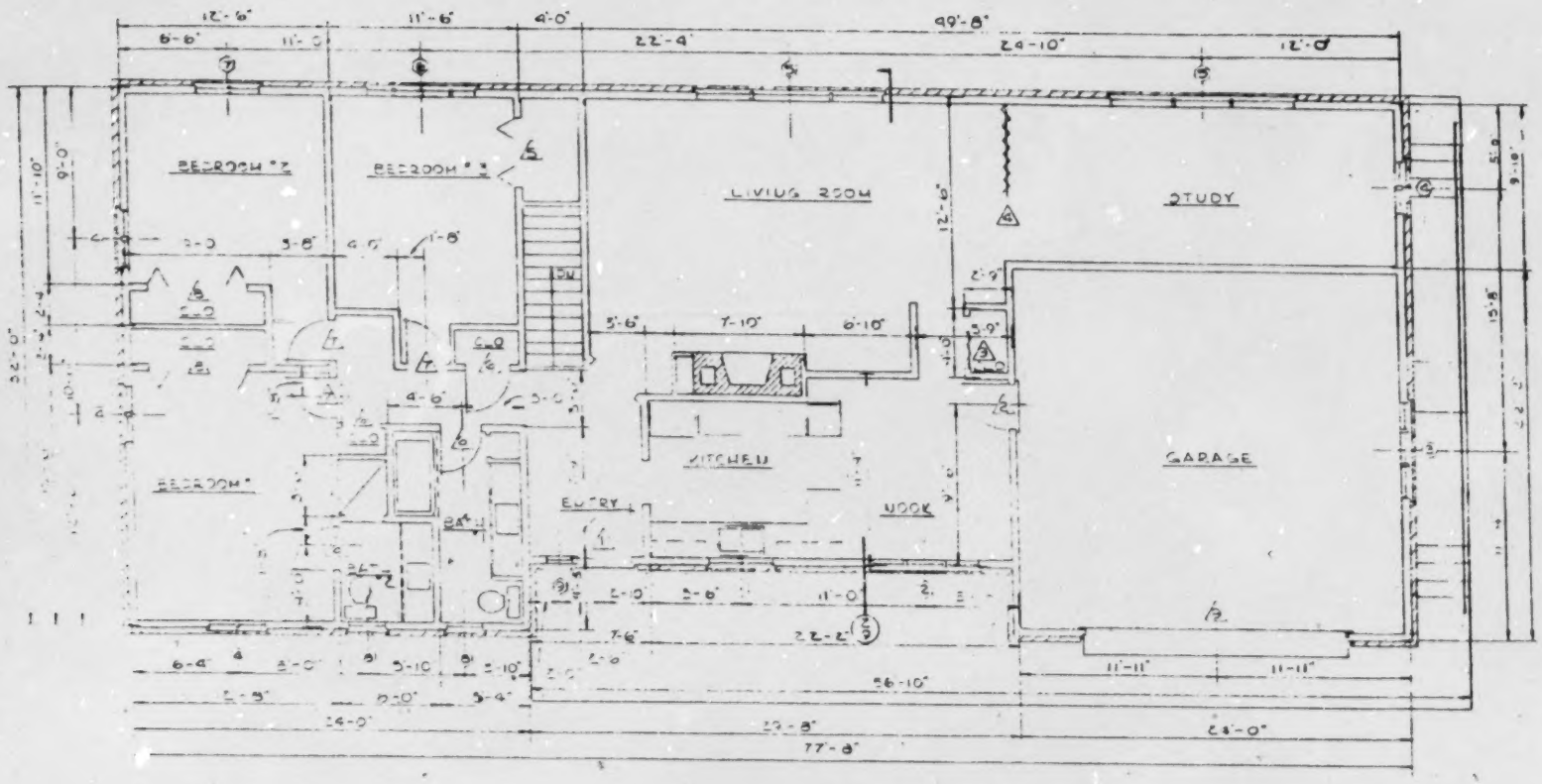
A. The student will correctly identify the numbers 1 through 9.

B. The student will correctly write the numbers 1 through 9.

VI. BIBLIOGRAPHY

A. Steps to Math Book I. Steck-Vaughn Company, Austin, Texas, 1969, pp. 1, 2.

B. Copy of blueprint.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BEDROOM #3
LIVING ROOM
STUDY
BEDROOM #1
KITCHEN
GARAGE
ENTRY
NOOK
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11'-6"
4'-0"
99'-8"
22'-9"
24'-10"
12'-0"
77'-8"
28'-0"

PROJECT APPLE CORE
INSTRUCTIONAL PACKET

TITLE: Construction

INSTRUCTIONAL PLAN: Mathematics

CAREER KNOWLEDGE AREA: Measurement LEVEL: L 2

EDUCATIONAL SKILL: Whole Numbers

I. INSTRUCTIONAL OBJECTIVES

A. The student will read the abbreviations (') and (") inches and relate to the measures on the blueprint.

B. The student will add denominate measures.

II. INSTRUCTIONAL ACTIVITIES

Adding measures.

III. SUGGESTED INSTRUCTIONAL PROCEDURES

A. Teacher will:

1. Introduce the notations (') feet and (") inches.

2. Explain how denominal numbers are added and quantities are covered.

B. Student will:

1. Read measurements on a blueprint.

2. Add simple denominate measures.

3. Carry with denominate measures.

IV. TEACHER MATERIALS

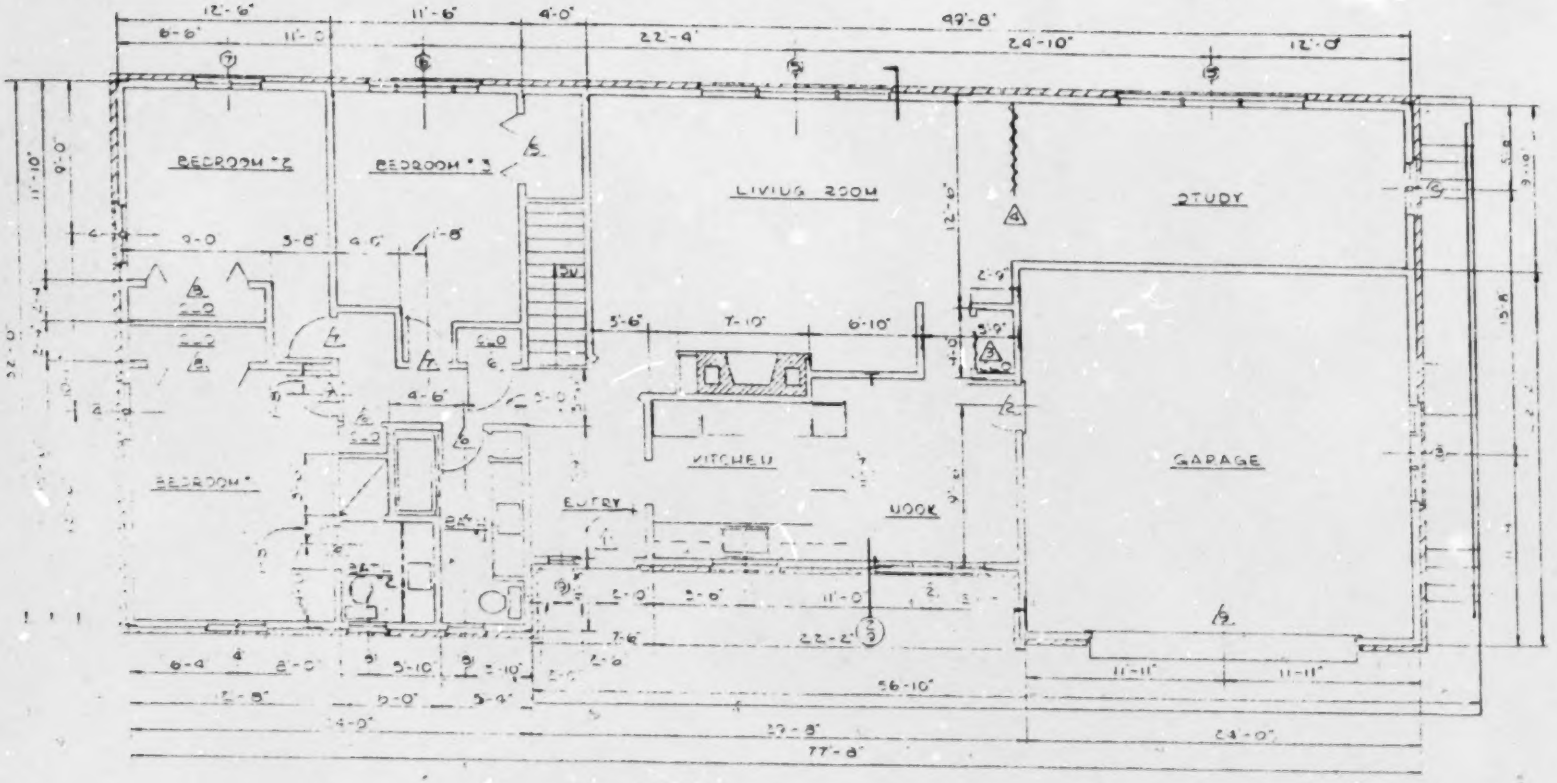
Blueprint.

V. EVALUATION

Teacher evaluation.

VI. BIBLIOGRAPHY

Copy of blueprint.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BEDROOM #3
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STUDY
BEDROOM #1
ENTRY
KITCHEN
NOOK
GARAGE

PROJECT APPLE CORE
INSTRUCTIONAL PACKET

TITLE: Construction

INSTRUCTIONAL PLAN: Reading

CAREER KNOWLEDGE AREA: Forms LEVEL: L 1

EDUCATIONAL SKILL: Word Recognition

I. INSTRUCTIONAL OBJECTIVES

The student will recognize the beginning sounds B and G.

II. INSTRUCTIONAL ACTIVITIES

Phonics.

III. SUGGESTED INSTRUCTIONAL PROCEDURES

Teacher will:

A. Explain beginning sounds of the letters B and G.

B. Read words from blueprint emphasizing B and G sound. Pronounce various words for students to select the proper sound.

IV. TEACHER MATERIALS

A. Blueprints.

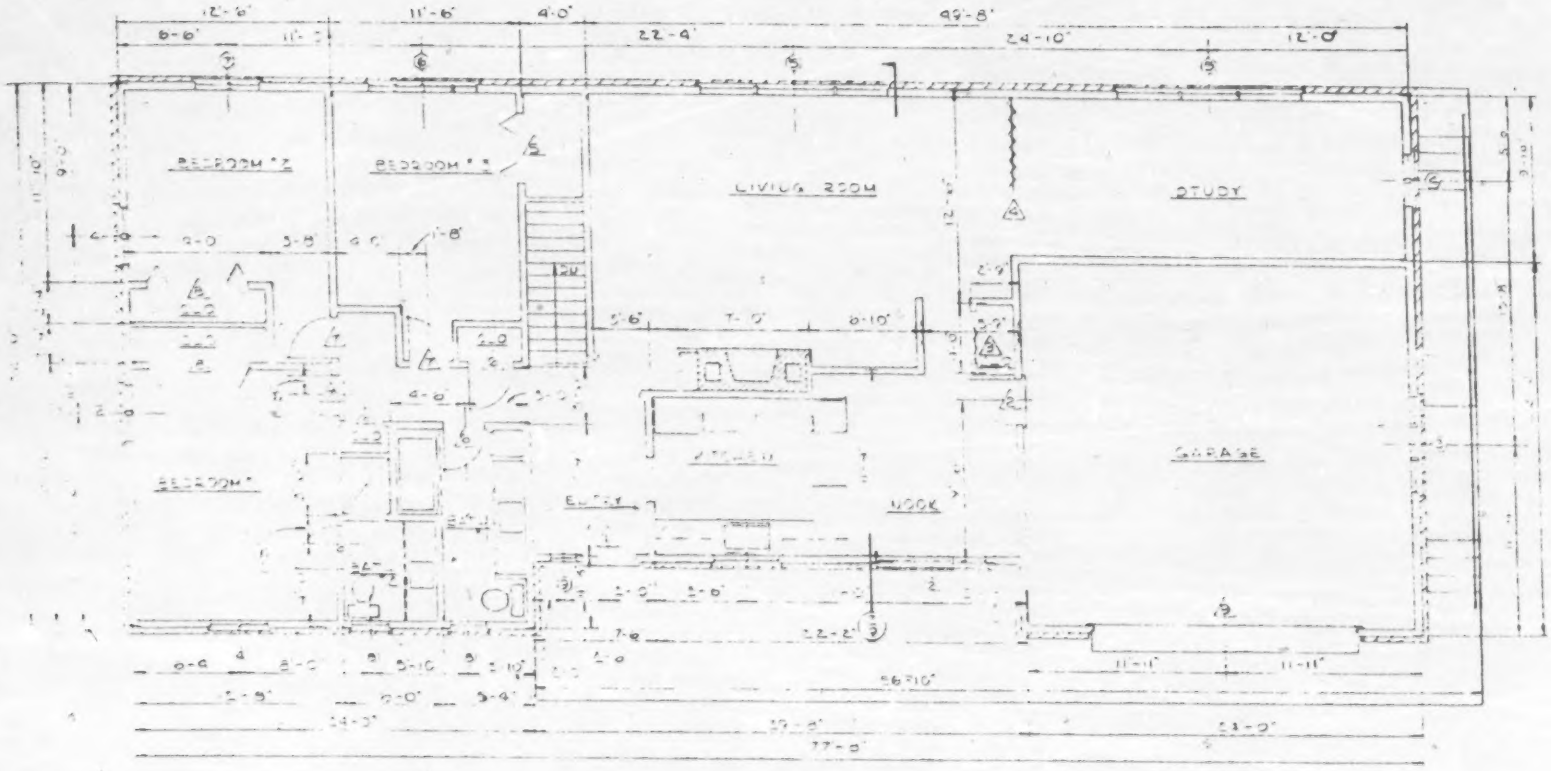
B. Alphabet cards.

V. EVALUATION

Teacher evaluation.

VI. BIBLIOGRAPHY

Copy of blueprint.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NOOK
GARAGE

PROJECT APPLE CORE
INSTRUCTIONAL PACKET

TITLE: Construction

INSTRUCTIONAL PLAN: Reading

CAREER KNOWLEDGE AREA: Forms LEVEL: L 1

EDUCATIONAL SKILL: Word Recognition

I. INSTRUCTIONAL OBJECTIVES

The student will recognize the beginning sounds of the letters B and R and relate these to key words.

II. INSTRUCTIONAL ACTIVITIES

A. Phonics introduction.

B. Key words.

III. SUGGESTED INSTRUCTIONAL PROCEDURES

A. Instructor will introduce key words bed for letter B and room for letter R.

B. Student will read these words from the blueprint.

C. Student will correctly relate simple B and R beginning sounds to selected words.

IV. TEACHER MATERIALS

A. Blueprints.

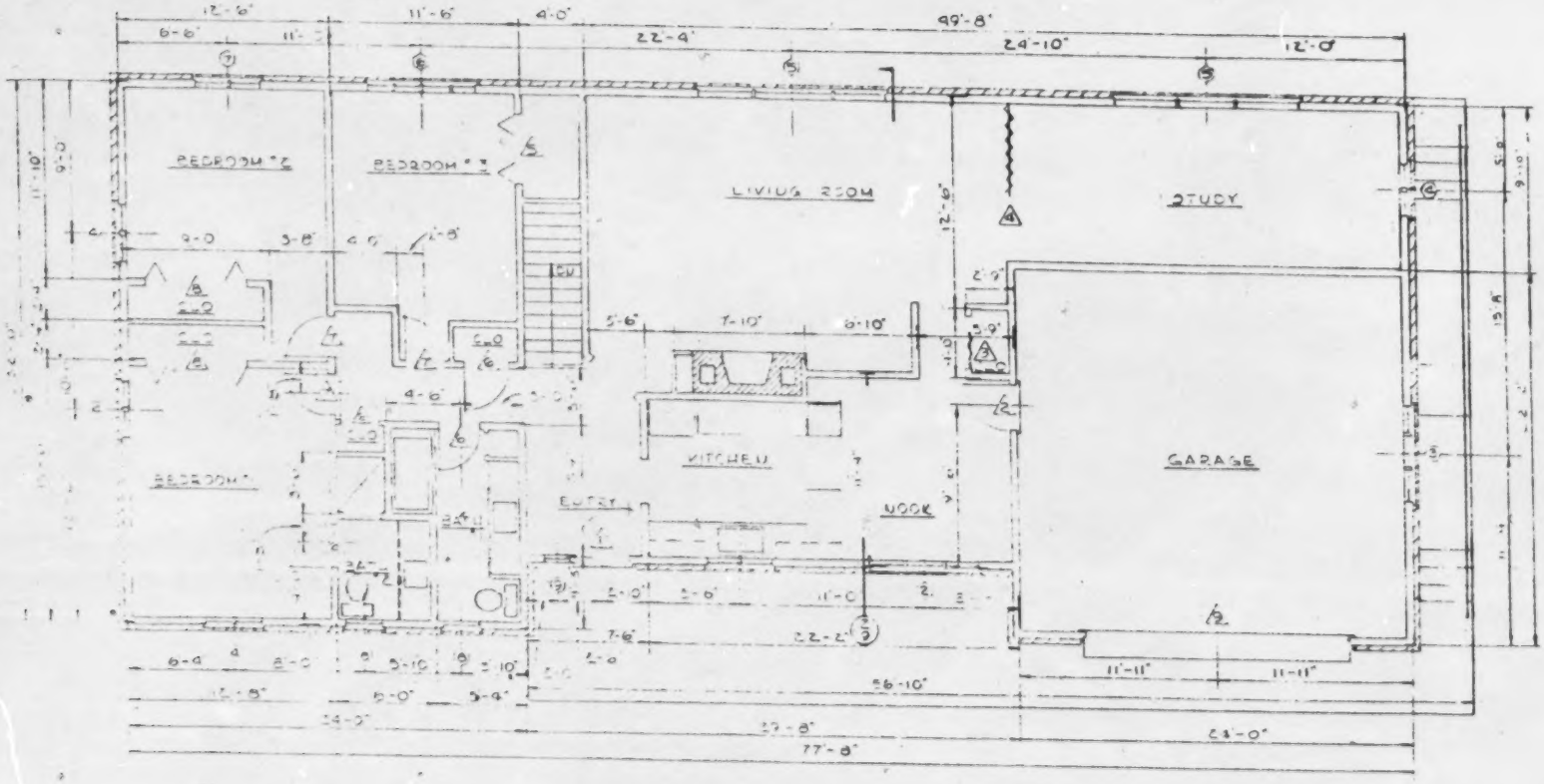
B. Key word cards.

V. EVALUATION

Teacher evaluation.

VI. BIBLIOGRAPHY

Copy of blueprint.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STUDY
BEDROOM #1
KITCHEN
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GARAGE

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31

PROJECT APPLE CORE
INSTRUCTIONAL PACKET

TITLE: Occupational Orientation

INSTRUCTIONAL PLAN: Mathematics

CAREER KNOWLEDGE AREA: Tax Deductions LEVEL: L 3

EDUCATIONAL SKILL: Whole Numbers

I. INSTRUCTIONAL OBJECTIVES

Given the net pay for a period of one week, the student will compute the additional amount of money he would receive if the percentage of federal withholding tax was decreased.

II. INSTRUCTIONAL ACTIVITIES

Percent

III. SUGGESTED INSTRUCTIONAL PROCEDURES

Fred read in the newspaper that federal tax withholdings would be decreased 2.5% of total net pay. Fred wants to determine the exact additional amount of money he will receive at the end of the week.

Fred's net pay is $150.00 a week.

What will his additional pay be for one week?

IV. MATERIALS

Teacher made activities.

V. EVALUATION

Teacher evaluation.

PROJECT APPLE CORE
INSTRUCTIONAL PACKET

TITLE: Occupational Orientation

INSTRUCTIONAL PLAN: Mathematics

CAREER KNOWLEDGE AREA: Social Security Payments LEVEL: L 3

EDUCATIONAL SKILL: Whole Numbers
Decimals
Percentage

I. INSTRUCTIONAL OBJECTIVES

A. Given examples of nine (9) digit numbers, the student will read the numerals stated on a Social Security card.

B. Given a hypothetical situation, the student will determine the total amount of Social Security taxes an individual will pay.

II. INSTRUCTIONAL ACTIVITIES

A. Whole Numbers.

1. Reading numbers.

2. Multiplication.

B. Decimals.

C. Percentage.

III. SUGGESTED INSTRUCTIONAL PROCEDURES

A. Read the following numerals:

509-26-1375 608-67-1408 762-53-1362

Look at your Social Security card. Is your number similar to the examples above?

B. Harry's weekly salary is $96.00. The Social Security deduction is 4% of your gross pay ($96). What is his total Social Security payment?

IV. TEACHER MATERIALS

Teacher made activities.

V. EVALUATION

Teacher evaluation.

PROJECT APPLE CORE
INSTRUCTIONAL PACKET

TITLE: Occupational Orientation

INSTRUCTIONAL PLAN: Mathematics

CAREER KNOWLEDGE AREA: Payroll LEVEL: L 2 - L 3

EDUCATIONAL SKILL: Whole Numbers
Fractions
Decimals

I. INSTRUCTIONAL OBJECTIVES

A. Given an hourly rate, the student will calculate the gross pay for a regular 40-hour week.

B. Given a regular hourly rate, the student will calculate the amount of overtime pay received for two hours of overtime work.

C. Given the total gross pay and a list of deductions, the student will determine the total amount deducted per pay period.

D. Given the net pay for one week, the student will compute the monthly net income.

II. INSTRUCTIONAL ACTIVITIES

A. Whole Numbers.

1. Addition.

2. Subtraction.

3. Multiplication.

B. Fractions.

C. Decimals.

III. SUGGESTED INSTRUCTIONAL PROCEDURES

A. Irving works for the city in a Worker I position. He is paid $2.30 per hour. How much money will Irving receive for a 40-hour work week?

B. Some weeks Irving works overtime. He gets paid time and a half for this work. If he earns $2.30 per hour for regular time, how much money will he receive for two hours of overtime work?

C. Irving's gross pay is $92.00 per week. The following tax deductions are taken out of his check:

Social Security	$2.93
Federal Income Tax	7.42
State Income Tax	1.35

How much is deducted from his gross pay each week?

D. Based on the information given in section C above, what is the total amount of net pay Irving will receive per month?

IV. TEACHER MATERIALS

Teacher made activities.

V. EVALUATION

Teacher evaluation.

PROJECT APPLE CORE
INSTRUCTIONAL PACKET

TITLE: Occupational Orientation

INSTRUCTIONAL PLAN: Mathematics

CAREER KNOWLEDGE AREA: Insurance Deductions LEVEL: L 2

EDUCATIONAL SKILL: Whole Numbers

I. INSTRUCTIONAL OBJECTIVES

Given the gross pay and net pay along with other deductions, the student will determine how much he pays for insurance each pay period.

II. INSTRUCTIONAL ACTIVITIES

A. Addition.

B. Subtraction.

III. SUGGESTED INSTRUCTIONAL PROCEDURES

Frank works for the city. His gross pay is $100.00 per week. He does not take all of this money home because of various deductions which are as follows:

Federal Income Tax	$15.20
Union Dues	2.00
Credit Union	1.50
Social Security	.75
Retirement	1.00

The only deduction not listed is for insurance. If Frank's net pay is $70.00, how much does he pay for insurance?

IV. TEACHER MATERIALS

Teacher made activities.

V. EVALUATION

Teacher evaluation.

PROJECT APPLE CORE
INSTRUCTIONAL PACKET

TITLE: Occupational Orientation

INSTRUCTIONAL PLAN: Mathematics

CAREER KNOWLEDGE AREA: Union Dues LEVEL: L 3

EDUCATIONAL SKILL: Whole Numbers
Decimals
Percent

I. INSTRUCTIONAL OBJECTIVES

A. Given the monthly gross pay and the percentage to be withheld for union dues, the student will compute the amount paid for union dues.

B. Given the total net pay and the amount of union dues withheld each month, the student will figure out the percentage withheld.

II. INSTRUCTIONAL ACTIVITIES

A. Whole Numbers.

1. Multiplication.

2. Division.

B. Decimals.

C. Percent.

III. SUGGESTED INSTRUCTIONAL PROCEDURES

A. Sam's gross pay per month is $535.00. He pays 2% of his salary to the union. How much are his monthly union dues?

B. Tom pays $20.96 per month for union dues. His gross pay is $525.00. What percentage of his gross pay is withheld each month for union dues?

IV. TEACHER MATERIALS

Teacher made activities.

V. EVALUATION

Teacher evaluation.